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1 [GPGPU: general purpose computation on graphics hardware](#)

[David Luebke](#), [Mark Harris](#), [Jens Krüger](#), [Tim Purcell](#), [Naga Govindaraju](#), [Ian Buck](#), [Cliff Woolley](#), [Aaron Lefohn](#)

August 2004 SIGGRAPH '04: SIGGRAPH 2004 Course Notes

Publisher: ACM

Full text available: Pdf (63.03 MB)

Additional Information: [full citation](#), [abstract](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 255, Downloads (12 Months): 1483, Citation Count: 3

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex ...

2 [Calpa: a tool for automating selective dynamic compilation](#)

[Markus Mock](#), [Craig Chambers](#), [Susan J. Eggers](#)

December 2000 MICRO 33: Proceedings of the 33rd annual ACM/IEEE international symposium on Microarchitecture

Publisher: ACM

Full text available: Publisher Site , Pdf (117.36 KB), Ps (313.09 KB)

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Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 22, Citation Count: 16

3 [Design and evaluation of dynamic optimizations for a Java just-in-time compiler](#)



[Toshio Suganuma, Toshiaki Yasue, Motohiro Kawahito, Hideaki Komatsu, Toshio Nakatani](#)

July Transactions on Programming Languages and Systems (TOPLAS) , Volume
2005 27 Issue 4

Publisher: ACM

Full text available: Pdf (1.60
MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 36, Downloads (12 Months): 218, Citation Count: 5

The high performance implementation of Java Virtual Machines (JVM) and Just-In-Time (JIT) compilers is directed toward employing a dynamic compilation system on the basis of online runtime profile information. The trade-off between the compilation overhead ...

Keywords: JIT compiler, Recompilation, adaptive optimization, code specialization, dynamic compilation, profile-directed method inlining

4 [Detection of emerging space-time clusters](#)



[Daniel B. Neill, Andrew W. Moore, Maheshkumar Sabhnani, Kenny Daniel](#)

August KDD '05: Proceedings of the eleventh ACM SIGKDD international conference on
2005 Knowledge discovery in data mining

Publisher: ACM

Full text available: Pdf (621.66
KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 29, Downloads (12 Months): 134, Citation Count: 2

We propose a new class of spatio-temporal cluster detection methods designed for the rapid detection of emerging space-time clusters. We focus on the motivating application of prospective disease surveillance: detecting space-time clusters of disease ...

Keywords: biosurveillance, cluster detection, space-time scan statistics

5 [TRAC: toward recency and consistency reporting in a database with distributed data sources](#)

[Jiansheng Huang, Jeffrey F. Naughton, Miron Livny](#)

September VLDB '06: Proceedings of the 32nd international conference on Very large
2006 data bases

Publisher: VLDB Endowment

Full text available: Pdf (588.56
KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 37, Citation Count: 1

Distributed computing environments, including workflows in computational grids, present challenges for monitoring, as the state of the system may be captured only in logs distributed throughout the system. One approach to monitoring such systems is to ...

6 [A dynamic and reactive approach to the supervision of BPEL processes](#)



[Luciano Baresi, Sam Guinea](#)

February 2008 I SEC '08: Proceedings of the 1st conference on India software engineering conference

Publisher: ACM

Full text available: Pdf (384.05 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 146, Citation Count: 0

The distributed nature of BPEL processes, the absence of a single stakeholder, the fact that partner services can dynamically change their functionality and/or QoS, and the fact we can define abstract processes and look for actual services at run-time, ...

Keywords: BPEL, aspect oriented programming, monitoring, recovery, supervision, web services

7 [Window join approximation over data streams with importance semantics](#)



[Adegoke Ojewole, Qiang Zhu, Wen-Chi Hou](#)

November 2006 CI KM '06: Proceedings of the 15th ACM international conference on Information and knowledge management

Publisher: ACM

Full text available: Pdf (410.87 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 61, Citation Count: 1

Load shedding techniques generate approximate sliding window join results when memory constraints prevent exact computation. The previously proposed random load shedding method drops input tuples without consideration for the number of outputs created, ...

Keywords: approximation algorithms, data streams, importance semantics, load shedding, sliding window join

8 [Software behavior oriented parallelization](#)



[Chen Ding, Xipeng Shen, Kirk Kelsey, Chris Tice, Ruke Huang, Chengliang Zhang](#)

June 2007 PLDI '07: Proceedings of the 2007 ACM SIGPLAN conference on Programming language design and implementation

Publisher: ACM

Full text available: Pdf (299.09 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 30, Downloads (12 Months): 263, Citation Count: 2

Many sequential applications are difficult to parallelize because of unpredictable control flow, indirect data access, and input-dependent parallelism. These difficulties led us to build a software system for behavior oriented parallelization (BOP), ...

Keywords: program behavior, speculative parallelization

Also published in:


June 2007 **SIGPLAN Notices** Volume 42 Issue 6

9 Temporal management of RFID data

Fusheng Wang, Peiya Liu

August 2005 VLDB '05: Proceedings of the 31st international conference on Very large data bases

Publisher: VLDB Endowment

Full text available:  Pdf (1.08 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 72, Downloads (12 Months): 558, Citation Count: 10

RFID technology can be used to significantly improve the efficiency of business processes by providing the capability of automatic identification and data capture. This technology poses many new challenges on current data management systems. RFID data ...


10 Activity-based management of IT service delivery



John Bailey, Eser Kandogan, Eben Haber, Paul P. Maglio

March 2007 CHI M T '07: Proceedings of the 2007 symposium on Computer human interaction for the management of information technology

Publisher: ACM

Full text available:  Pdf (564.61 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 54, Downloads (12 Months): 396, Citation Count: 0

Growth, adaptability, innovation, and cost control are leading concerns of businesses, especially with respect to use of information technology (IT). Though standards such as the Information Technology Infrastructure Library (ITIL) offer the potential ...


Keywords: IT service delivery, activity management, services, workspaces

11 Multimedia information retrieval: watershed events



October 2008 MIR '08: Proceeding of the 1st ACM international conference on Multimedia information retrieval

Publisher: ACM

Full text available:  Pdf (965.89 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 0, Citation Count: 0

Since its inception, Multimedia Information Retrieval (MIR) has made good steady progress, but has not been able to keep up with the speed at which needs for this technology evolved. We are at a very important juncture in the development of technology. ...

Keywords: indexing, information retrieval, multimedia, search, semantic gap

12 [Admission of QoS aware users in a smart network](#)



[Eroi Gelenbe](#), [Georgia Sakellari](#), [Maurizio D'arienzo](#)

March 2008 Transactions on Autonomous and Adaptive Systems (TAAS) , Volume 3 Issue 1

Publisher: ACM

Full text available: Pdf (3.31 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 189, Citation Count: 0

Smart networks have grown out of the need for stable, reliable, and predictable networks that will guarantee packet delivery under Quality of Service (QoS) constraints. In this article we present a measurement-based admission control algorithm that helps ...

Keywords: Measurement-based admission control, cognitive packet network, quality of service, self-aware

13 [Historical spatio-temporal aggregation](#)



[Yufei Tao](#), [Dimitris Papadias](#)

January 2005 Transactions on Information Systems (TOIS) , Volume 23 Issue 1

Publisher: ACM

Full text available: Pdf (1.42 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 158, Citation Count: 1

Spatio-temporal databases store information about the positions of individual objects over time. However, in many applications such as traffic supervision or mobile communication systems, only summarized data, like the number of cars in an area for a ...

Keywords: Aggregation, access methods, cost models

14 [Promoting extension and reuse in a spoken dialog manager: An evaluation of the queen's communicator](#)



[Philip Hanna](#), [Ian O'Neill](#), [Craig Wootton](#), [Michael McTear](#)

July 2007 Transactions on Speech and Language Processing (TSLP) , Volume 4 Issue 3

Publisher: ACM

Full text available: Pdf (720.00 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 109, Citation Count: 0

This article describes how an object-oriented approach can be applied to the architectural design of a spoken language dialog system with the aim of facilitating the modification, extension, and reuse of discourse-related expertise. The architecture ...

Keywords: Human-computer interaction, dialog management, speech and language processing, spoken dialog systems

15 [Providing awareness through situated process maps: the hospital care case](#)



[Federico Cabrita](#), [Marcello Sarini](#), [Carla Simone](#)

November 2007 GROUP '07: Proceedings of the 2007 international ACM conference on Conference on supporting group work

Publisher: ACM

Full text available: Pdf (464.17 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 108, Citation Count: 0

Clinical Pathways (CPs) are artifacts that clinicians are increasingly introducing in their practices in order to deal with health problems in the most effective, efficient and agreed way. As a result of an observational study at a Neonatology Intensive ...

Keywords: clinical pathways, collaboration awareness, cooperative work, hospital work

16 [Protecting your daily in-home activity information from a wireless snooping attack](#)



[Vijay Srinivasan](#), [John Stankovic](#), [Kamin Whitehouse](#)

September 2008 UbiComp '08: Proceedings of the 10th international conference on Ubiquitous computing

Publisher: ACM

Full text available: Pdf (693.64 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 53, Downloads (12 Months): 57, Citation Count: 0

In this paper, we first present a new privacy leak in residential wireless ubiquitous computing systems, and then we propose guidelines for designing future systems to prevent this problem. We show that we can observe private activities in the home such ...

Keywords: activity monitoring, side channel privacy attacks, wireless fingerprinting

17 [Spoken dialogue technology: enabling the conversational user interface](#)



[Michael F. McTear](#)

March 2002 Computing Surveys (CSUR) , Volume 34 Issue 1

Publisher: ACM

Full text available: Pdf (987.69 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 125, Downloads (12 Months): 782, Citation Count: 19

Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the ...

Keywords: Dialogue management, human computer interaction, language generation, language understanding, speech recognition, speech synthesis

18 [Specification and implementation of exceptions in workflow management systems](#)



[Fabio Casati](#), [Stefano Ceri](#), [Stefano Paraboschi](#), [Guiseppe Pozzi](#)

September 1999 Transactions on Database Systems (TODS) , Volume 24 Issue 3

Publisher: ACM

Full text available: Pdf (250.40 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 30, Downloads (12 Months): 277, Citation Count: 21

Although workflow management systems are most applicable when an organization follows standard business processes and routines, any of these processes faces the need for handling exceptions, i.e., asynchronous and anomalous situations that fall outside ...

Keywords: active rules, asynchronous events, exceptions, workflow management systems

19 [Towards understanding IT security professionals and their tools](#)



[David Botta](#), [Rodrigo Werlinger](#), [André Gagné](#), [Konstantin Beznosov](#), [Lee Iverson](#), [Sidney Fels](#), [Brian Fisher](#)

July 2007 SOUPS '07: Proceedings of the 3rd symposium on Usable privacy and security

Publisher: ACM

Full text available: Pdf (272.99 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 58, Downloads (12 Months): 485, Citation Count: 2

We report preliminary results of our ongoing field study of IT professionals who are involved in security management. We interviewed a dozen practitioners from five organizations to understand their workplace and tools. We analyzed the interviews using ...

Keywords: collaboration, ethnography, security management, security tasks, security tools, usable security

20 [Jove: java as it happens](#)



[Steven P. Reiss](#), [Manos Renieris](#)

May 2005 SoftVis '05: Proceedings of the 2005 ACM symposium on Software visualization

Publisher: ACM

Full text available: Pdf (299.48 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 74, Citation Count: 3

Dynamic software visualization is designed to provide programmers with insights as to what the program is doing. Most current dynamic visualizations either use program traces to show information about prior runs, slow the program down substantially, ...





Keywords: dynamic software visualization, instrumentation, run-time monitoring

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